FIG. 1

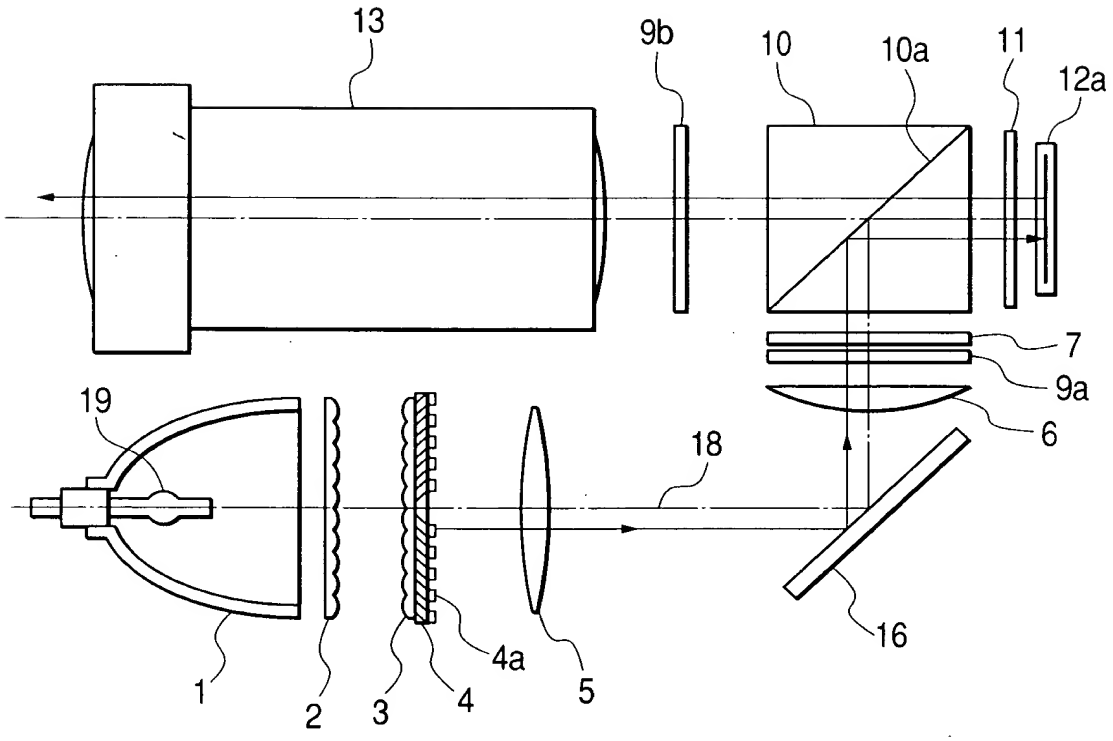

FIG. 2

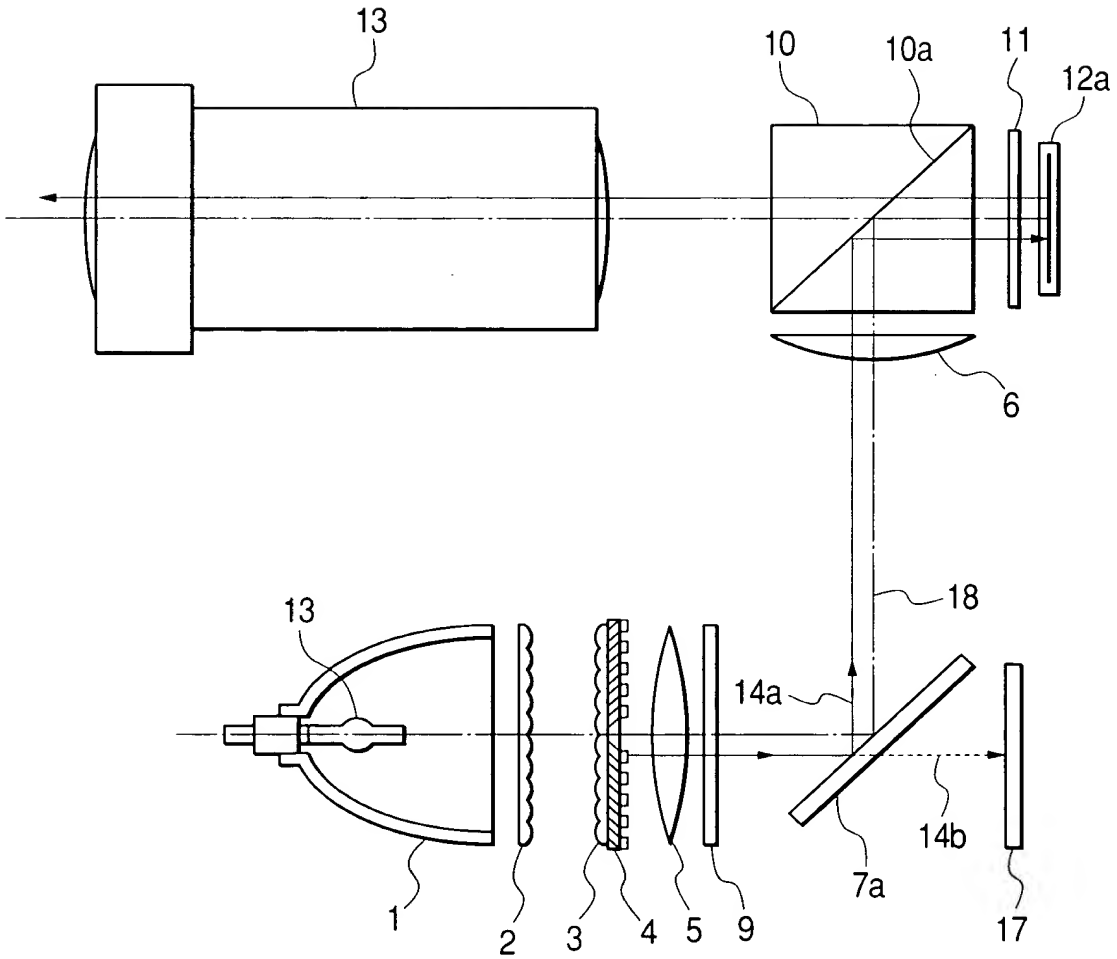

FIG. 3

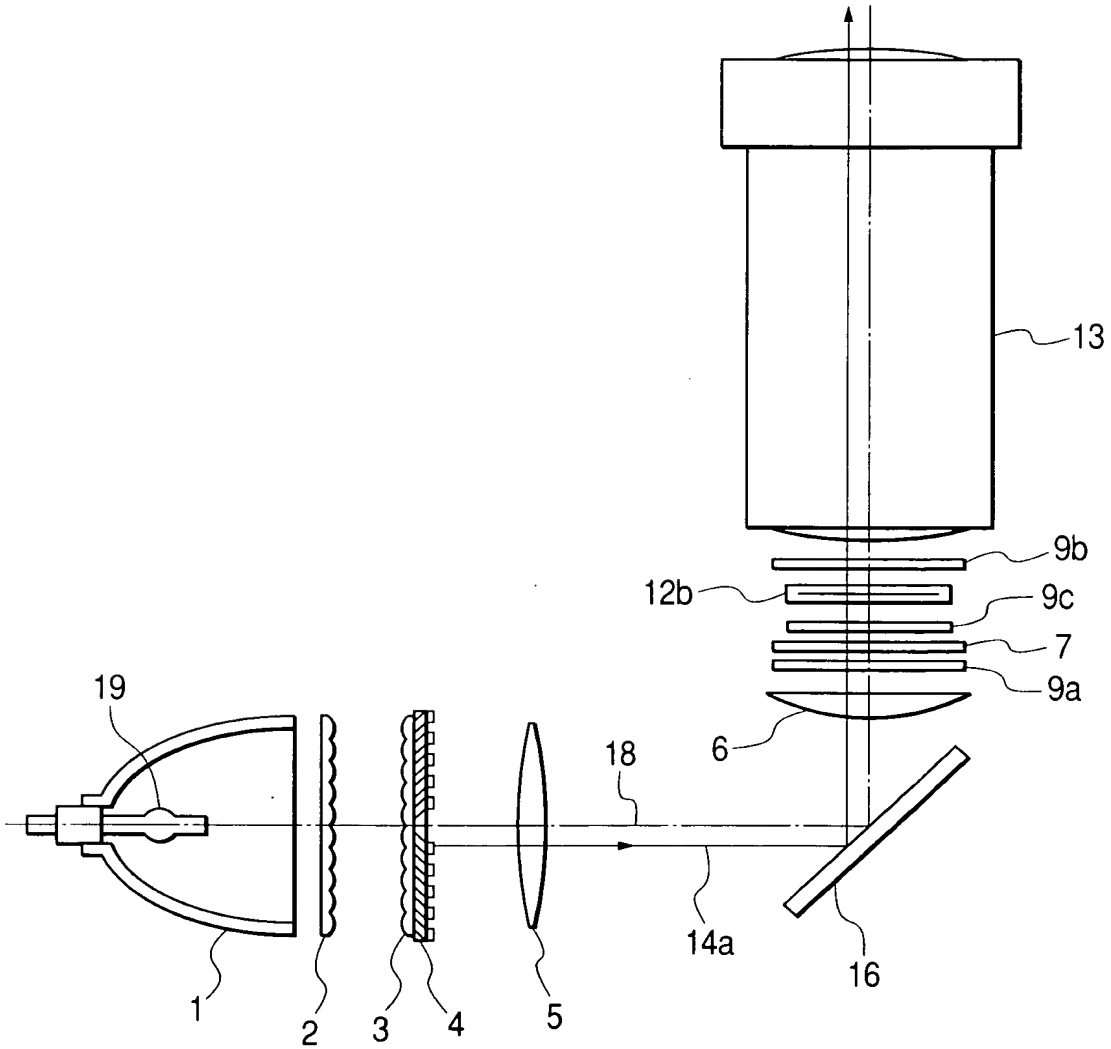

FIG. 4

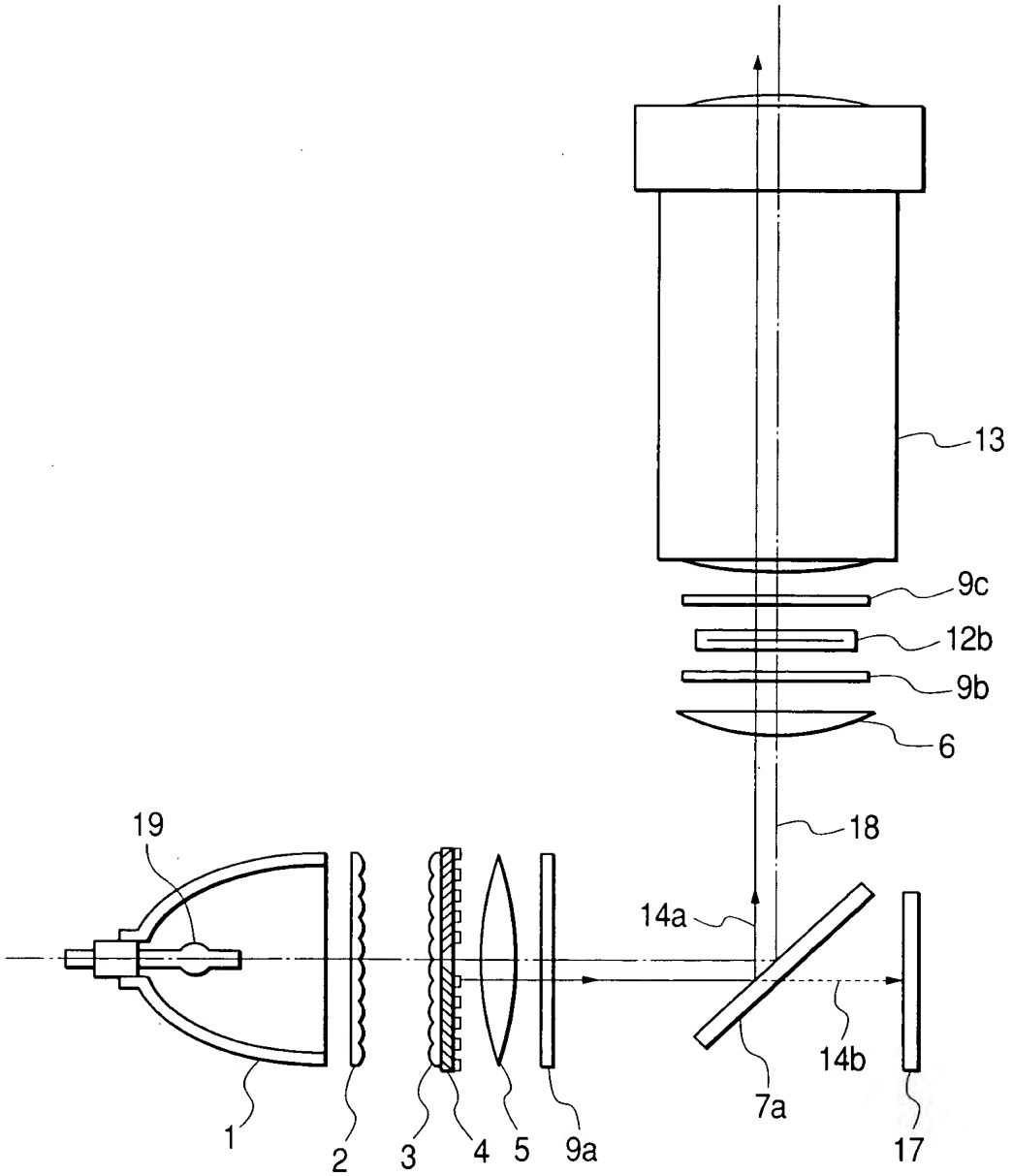

FIG. 5

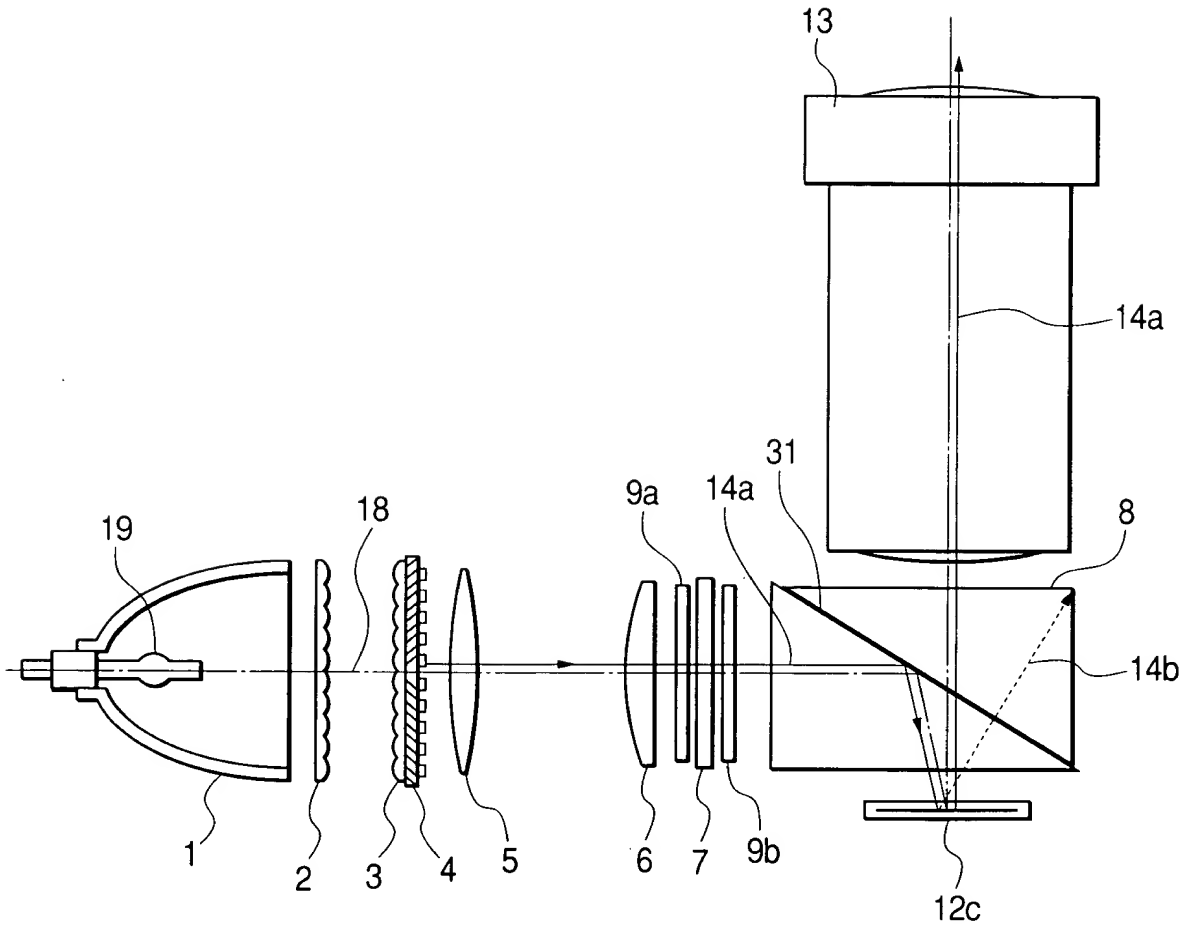

FIG. 6

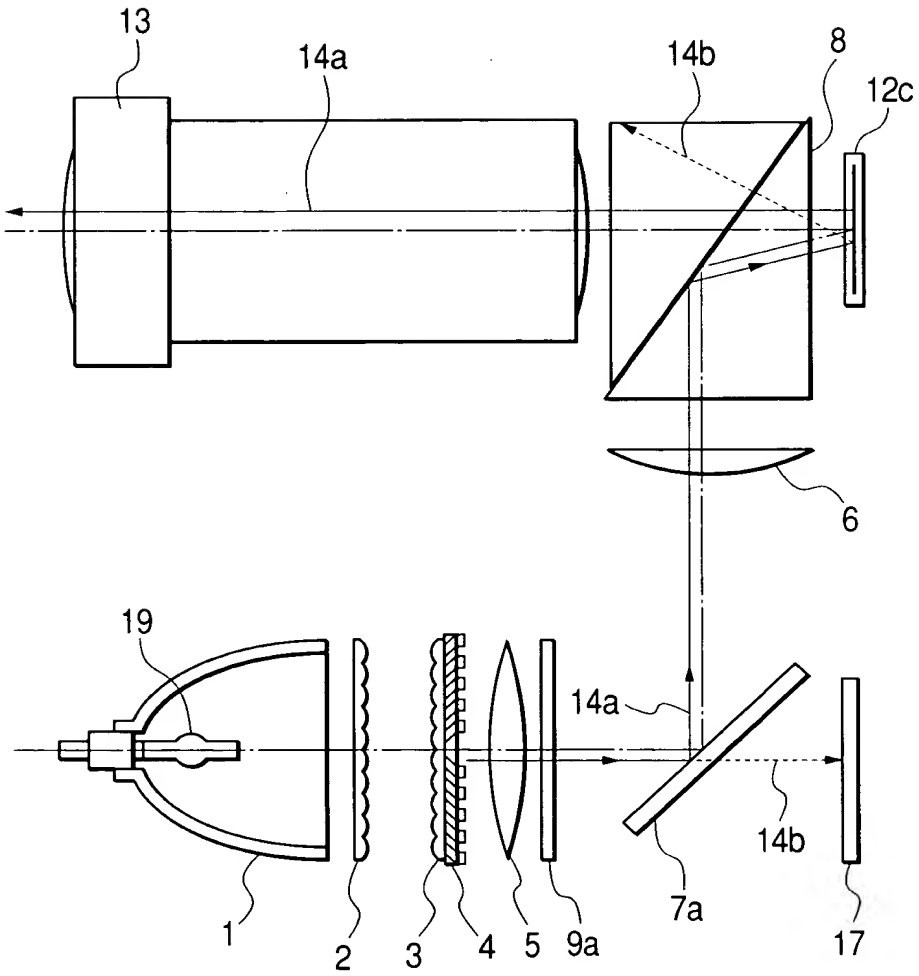

FIG. 7A

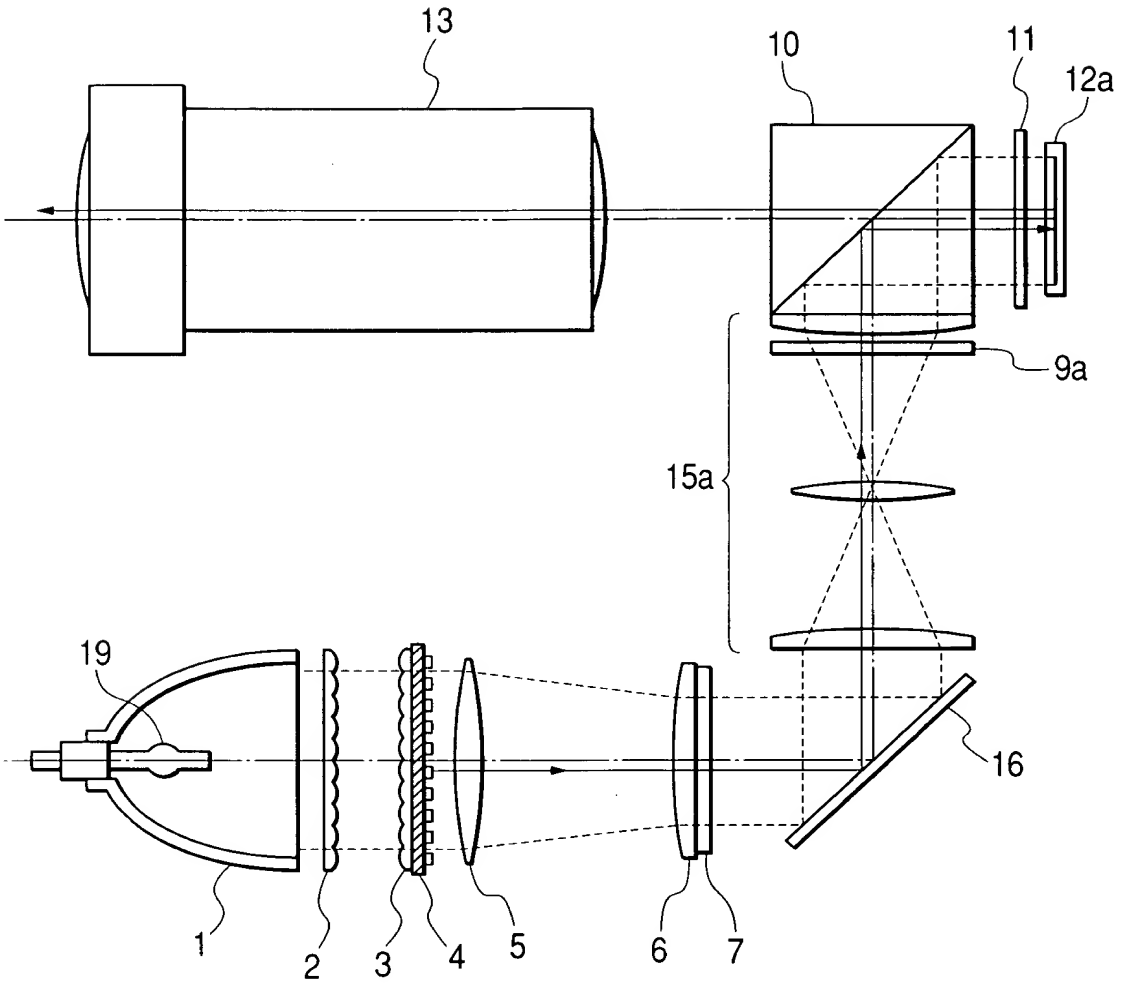

FIG. 7B

R
G
B

FIG. 7C

B
R
G

FIG. 8

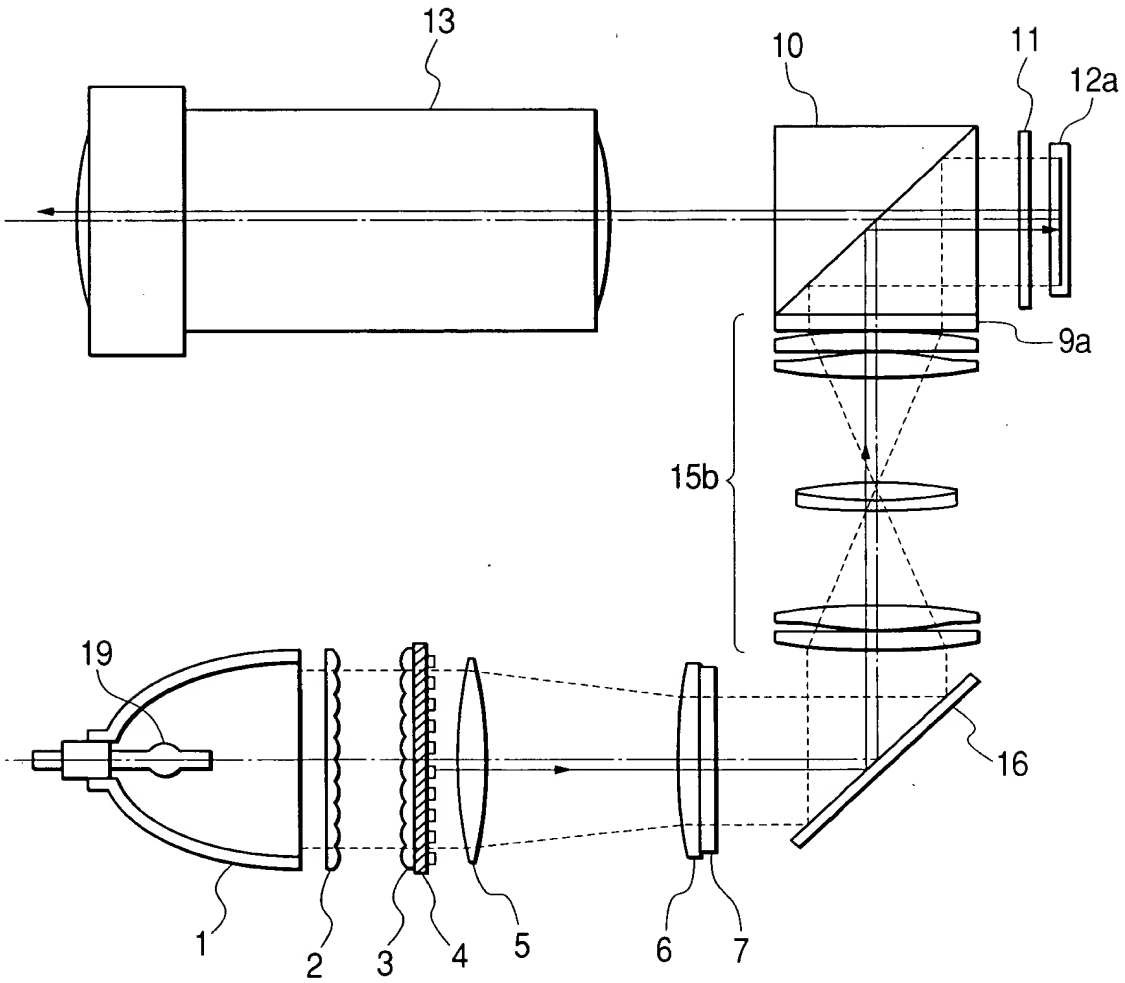

FIG. 9

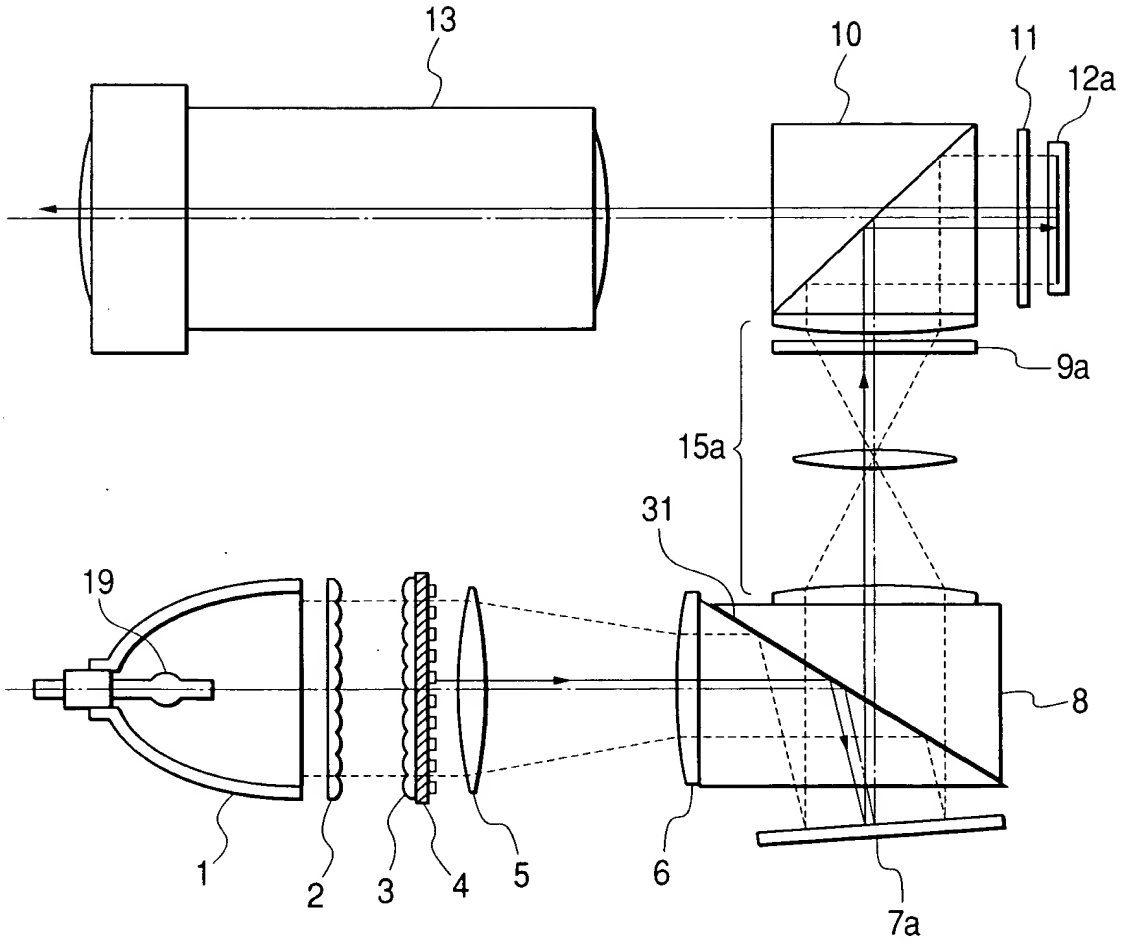

FIG. 10A

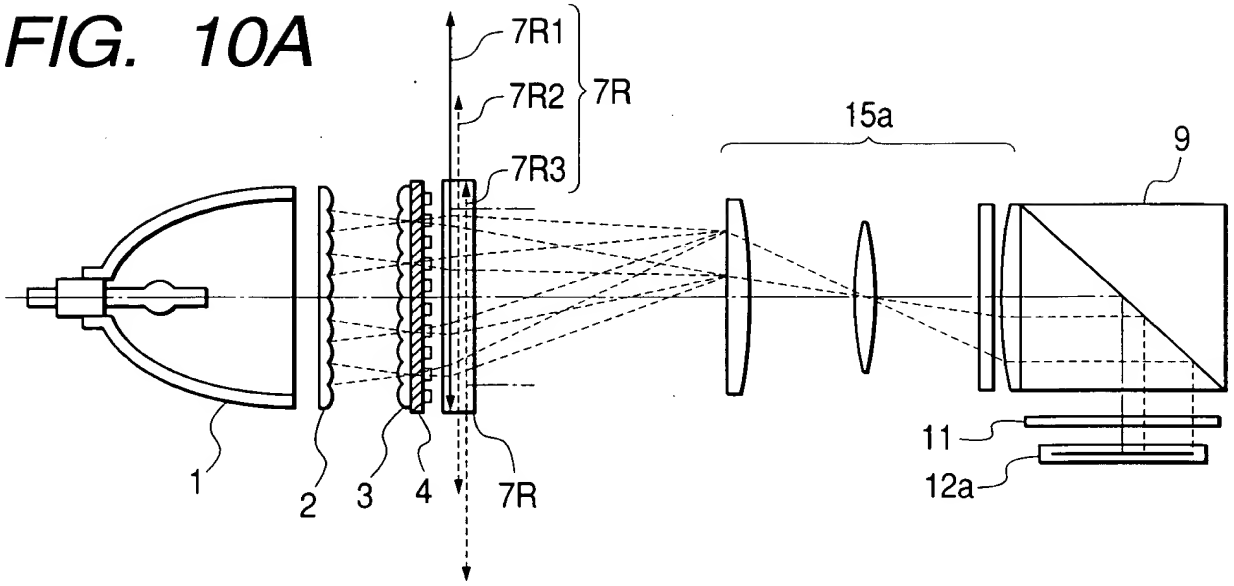

FIG. 10B

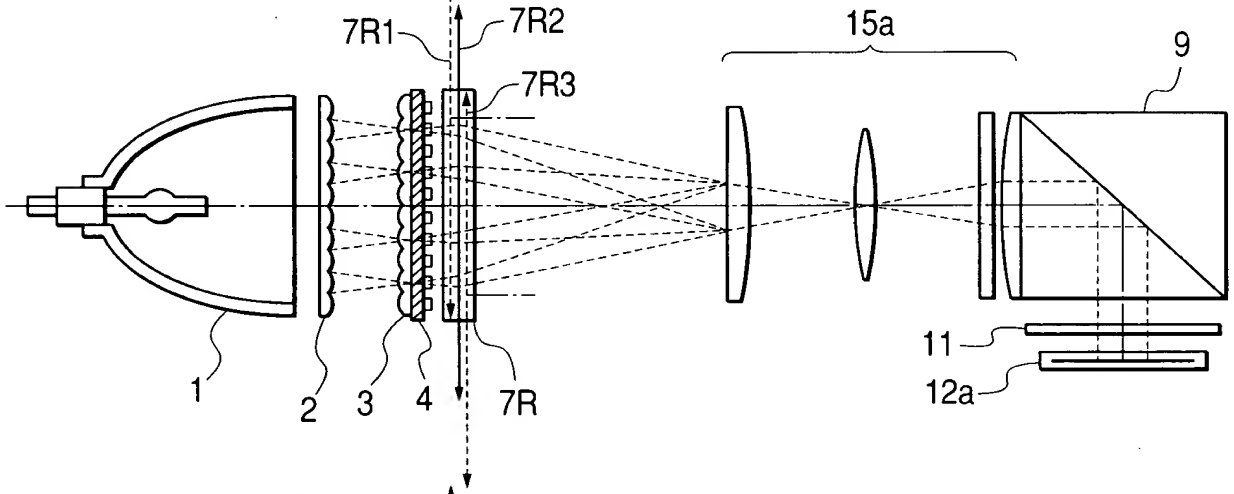

FIG. 10C

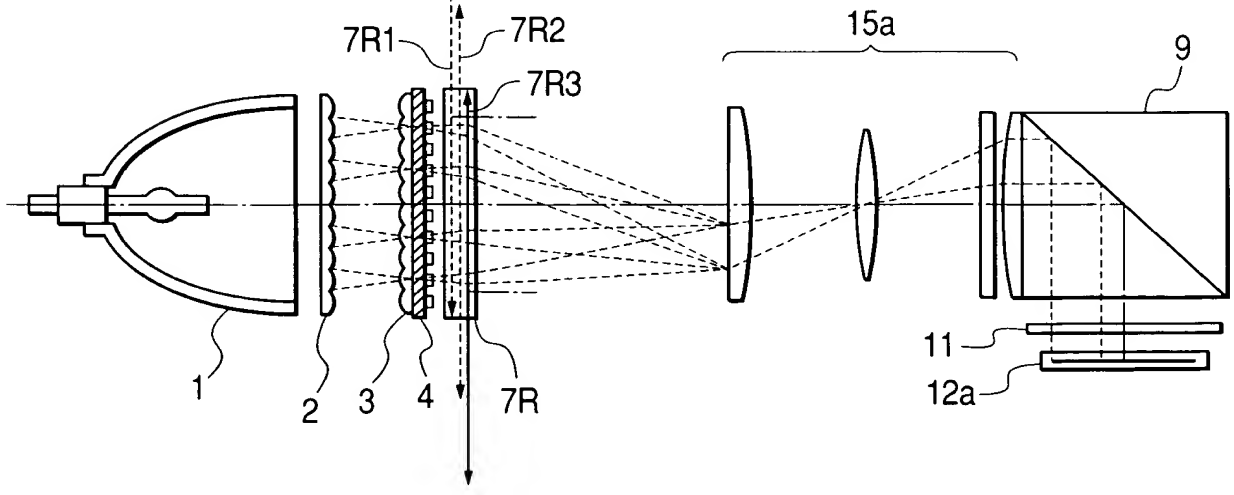

FIG. 11A

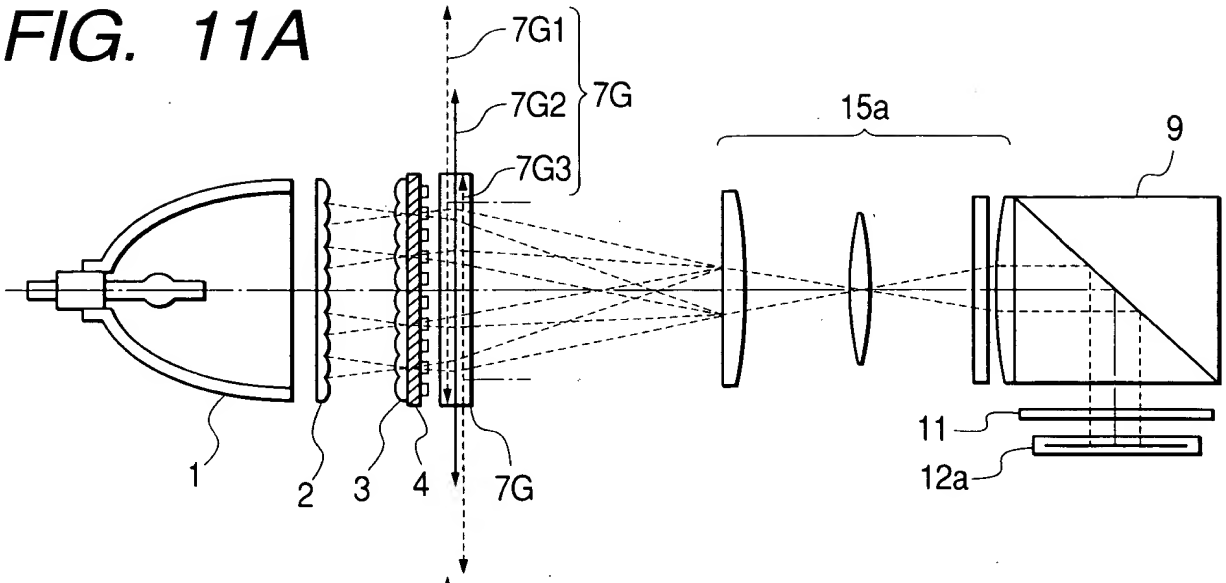

FIG. 11B

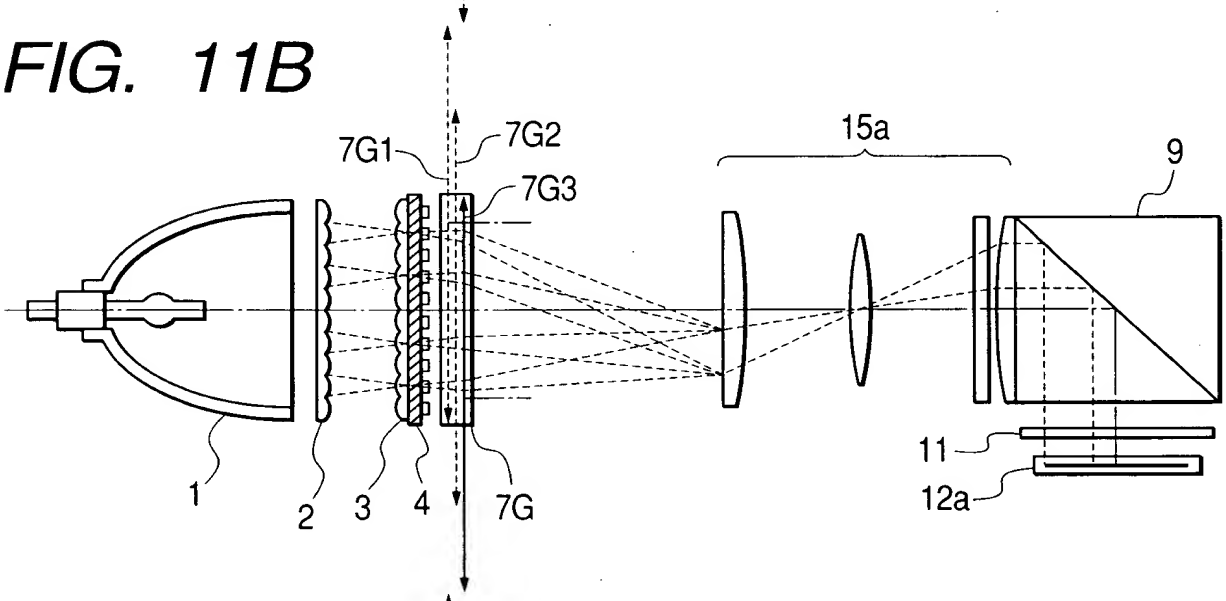

FIG. 11C

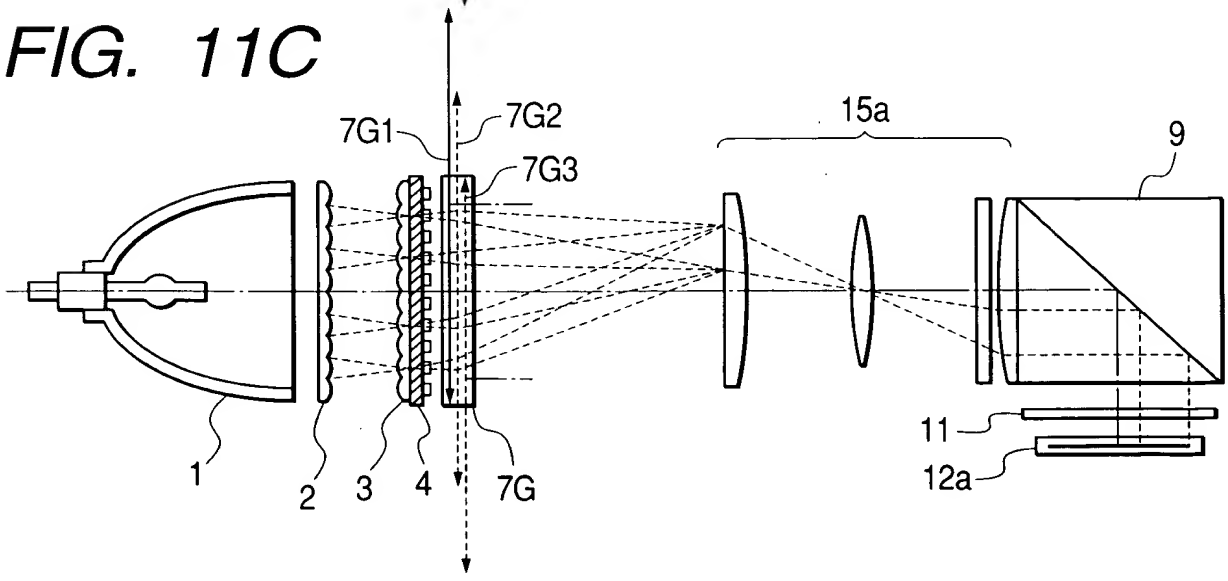

FIG. 12A

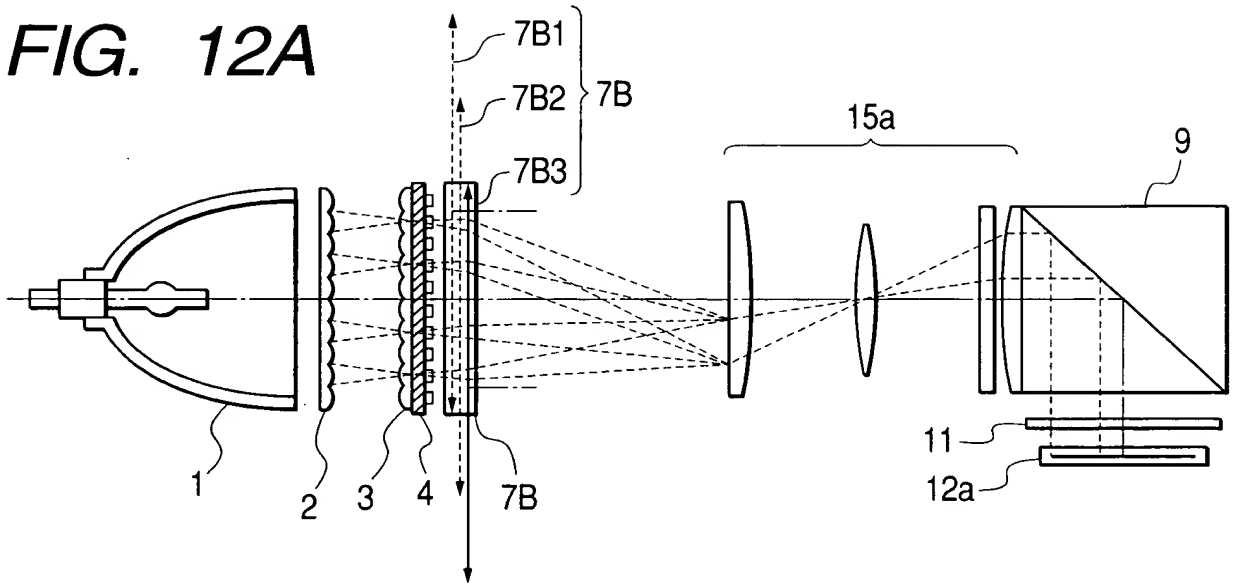

FIG. 12B

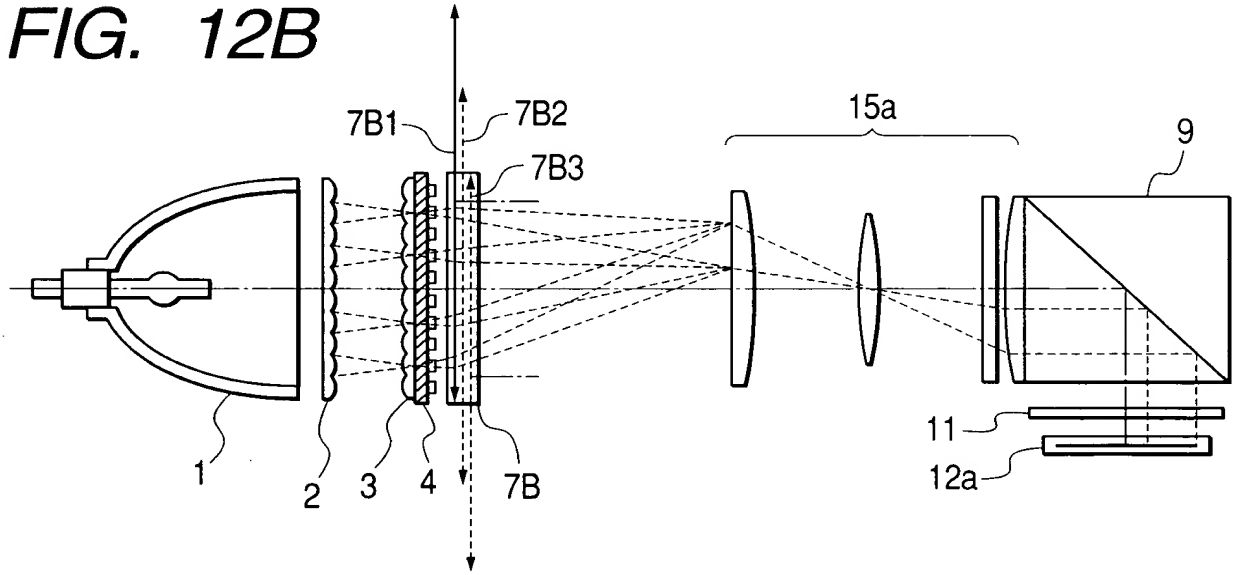

FIG. 12C

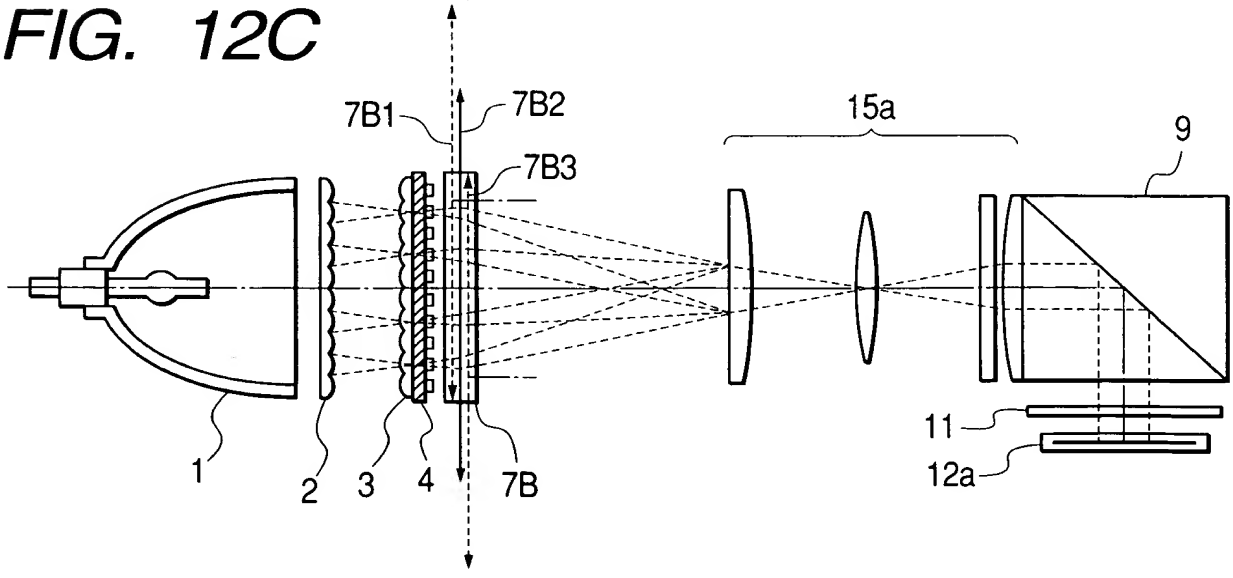

FIG. 13

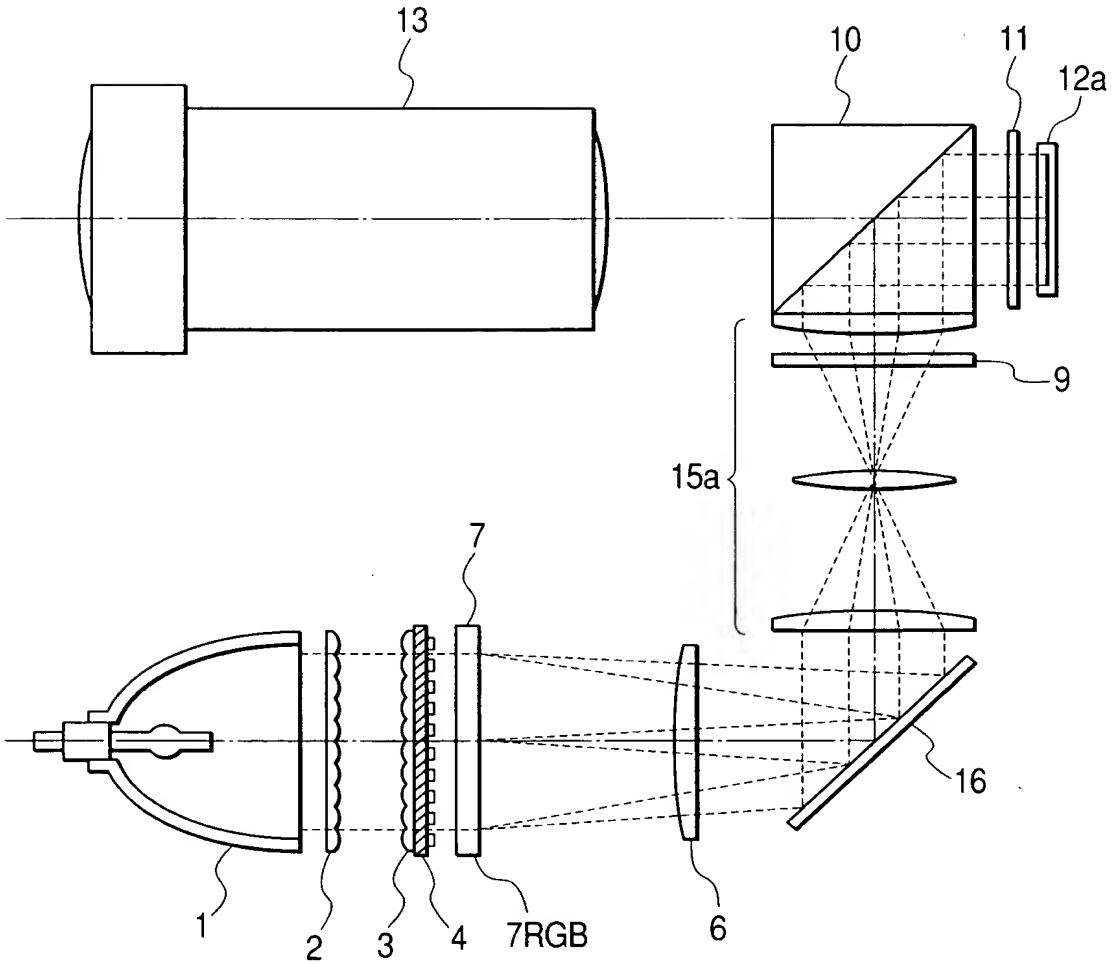

FIG. 14

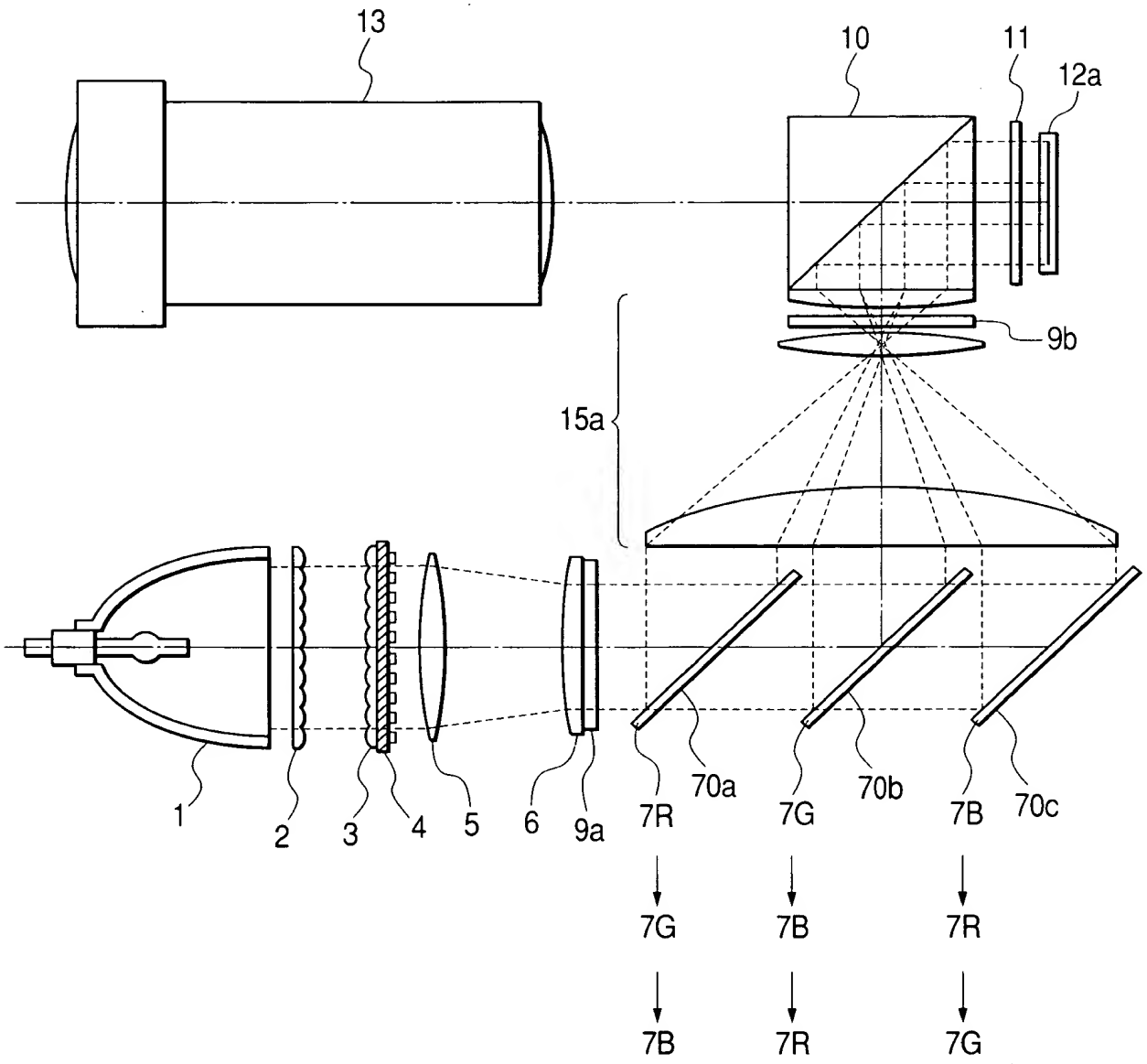

FIG. 15

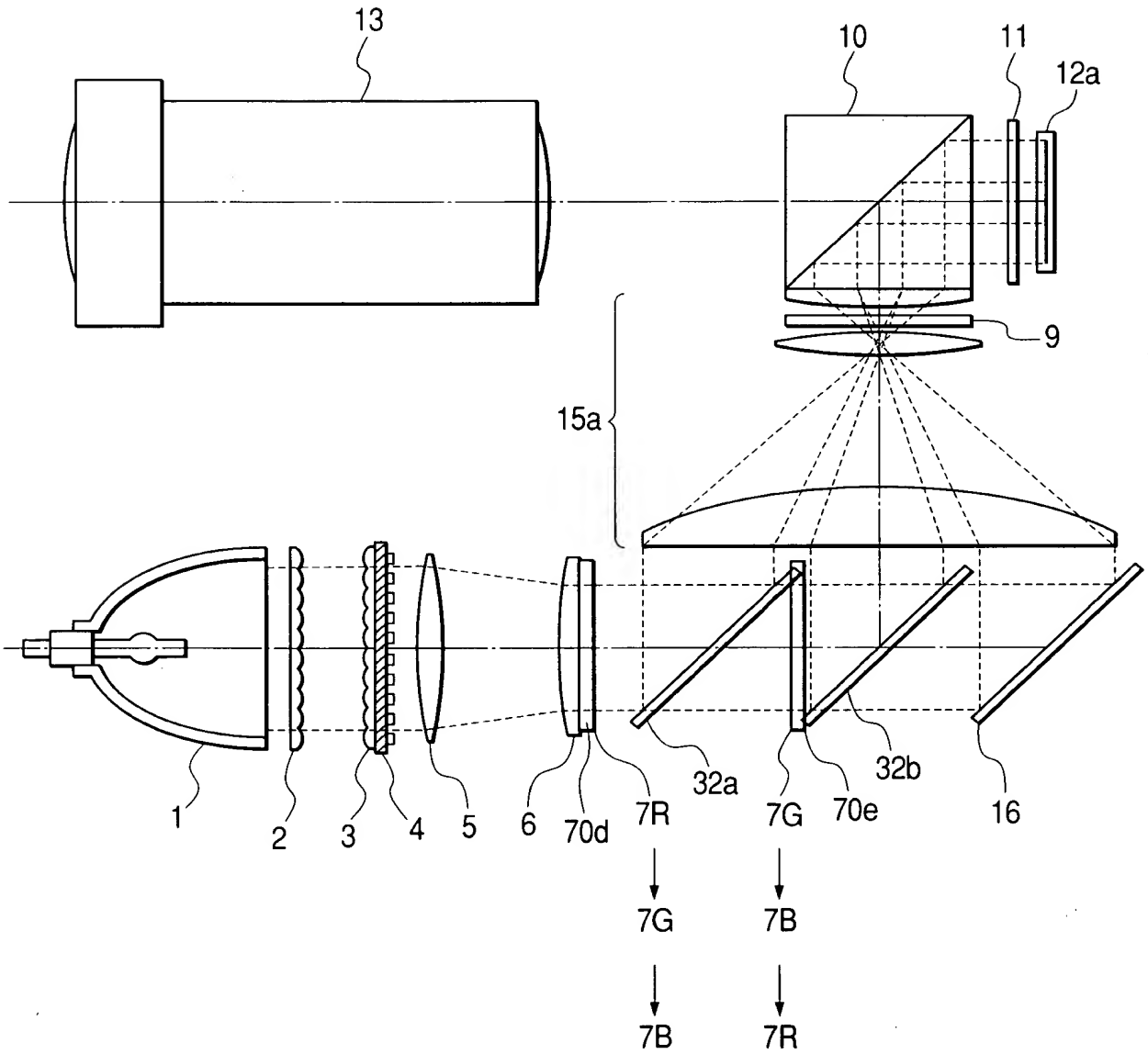

FIG. 16

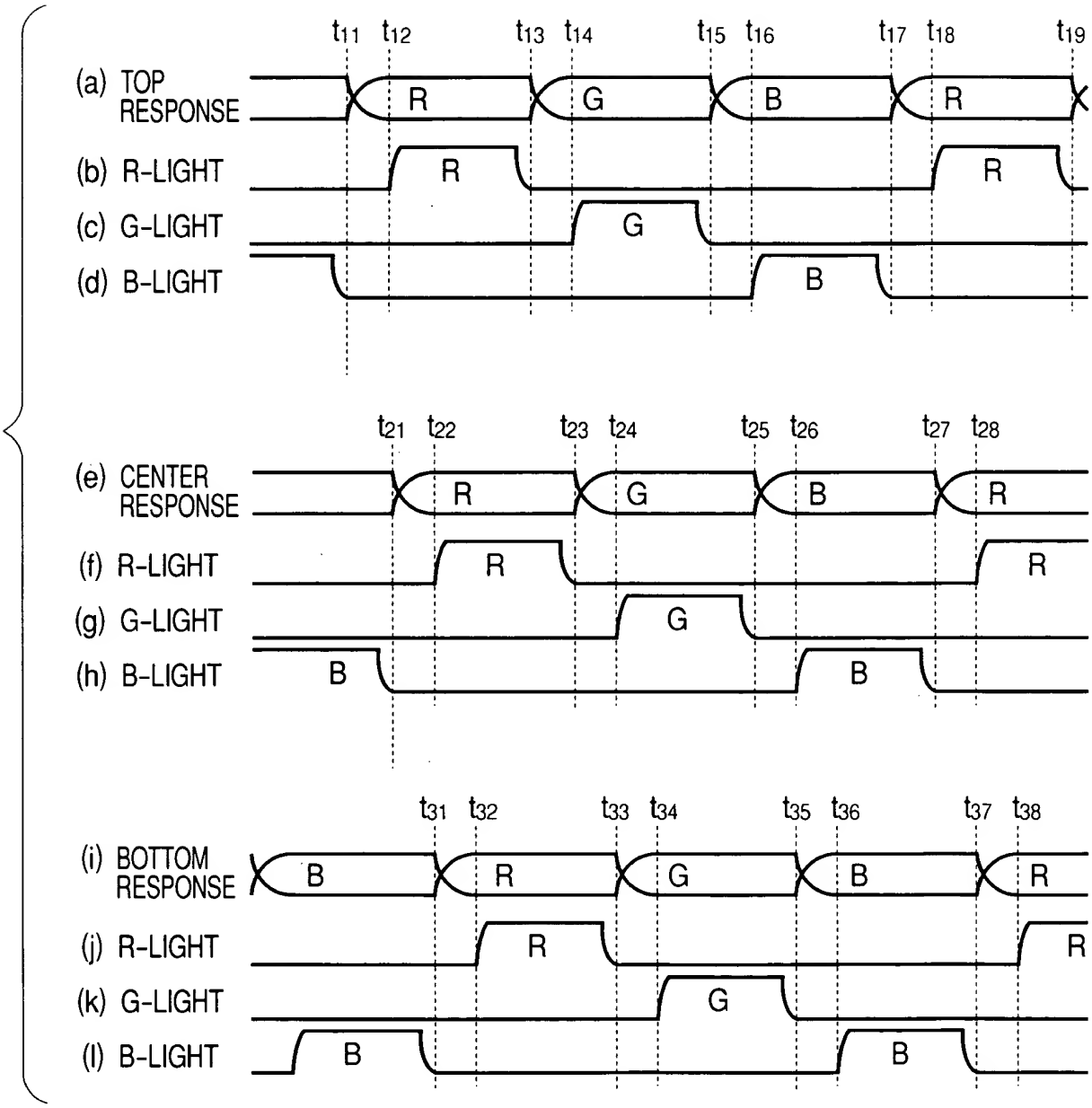
t11 t12 t13 t14 t15 t16 t17 t18 t19
(a) TOP RESPONSE
R G B R
(b) R-LIGHT
R R
(c) G-LIGHT
G
(d) B-LIGHT
B
t21 t22 t23 t24 t25 t26 t27 t28
(e) CENTER RESPONSE
R G B R
(f) R-LIGHT
R R
(g) G-LIGHT
G
(h) B-LIGHT
B B
t31 t32 t33 t34 t35 t36 t37 t38
(i) BOTTOM RESPONSE
B R G B R
(j) R-LIGHT
R R
(k) G-LIGHT
G
(l) B-LIGHT
B B

FIG. 17A

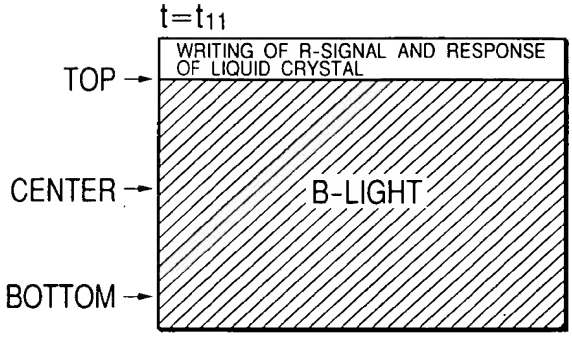

FIG. 17B

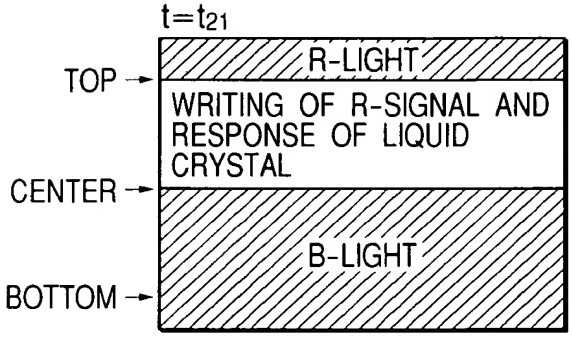

FIG. 17C

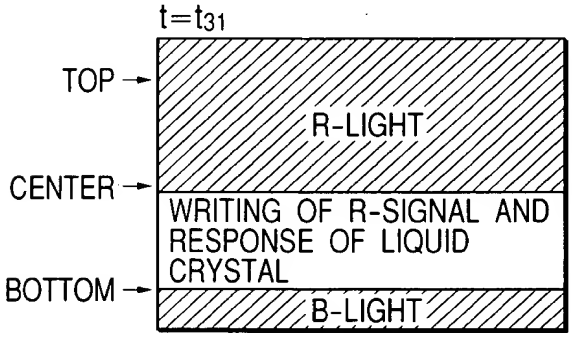

FIG. 17D

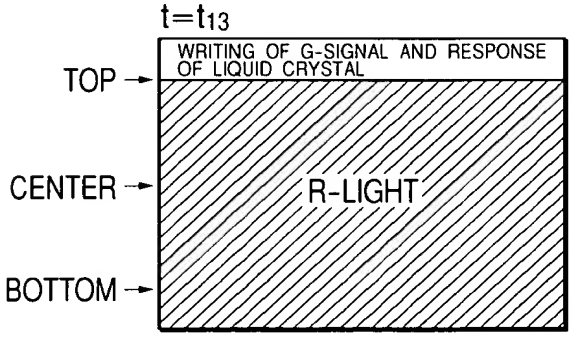

FIG. 17E

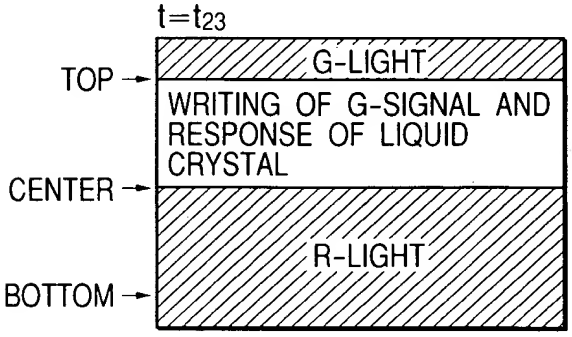

FIG. 17F

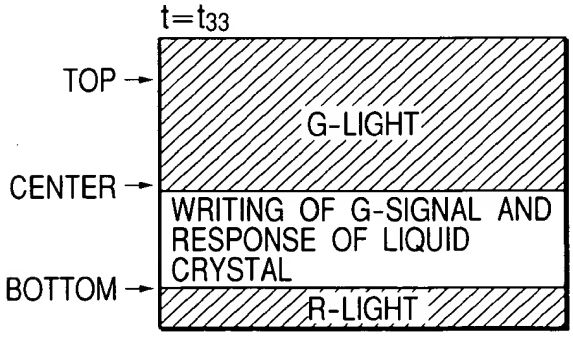

FIG. 17G

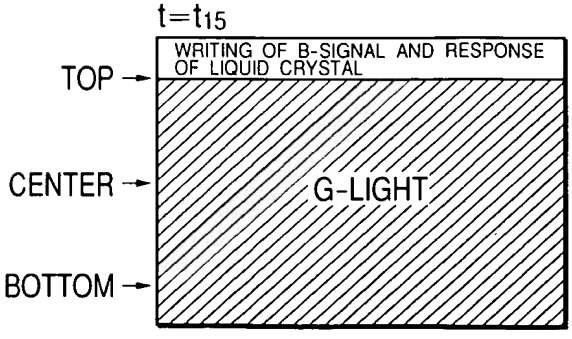

FIG. 17H

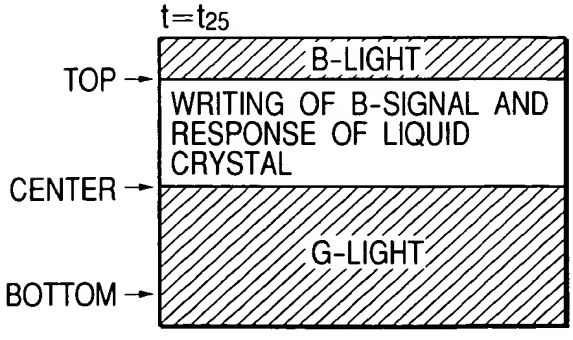

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FIG. 18

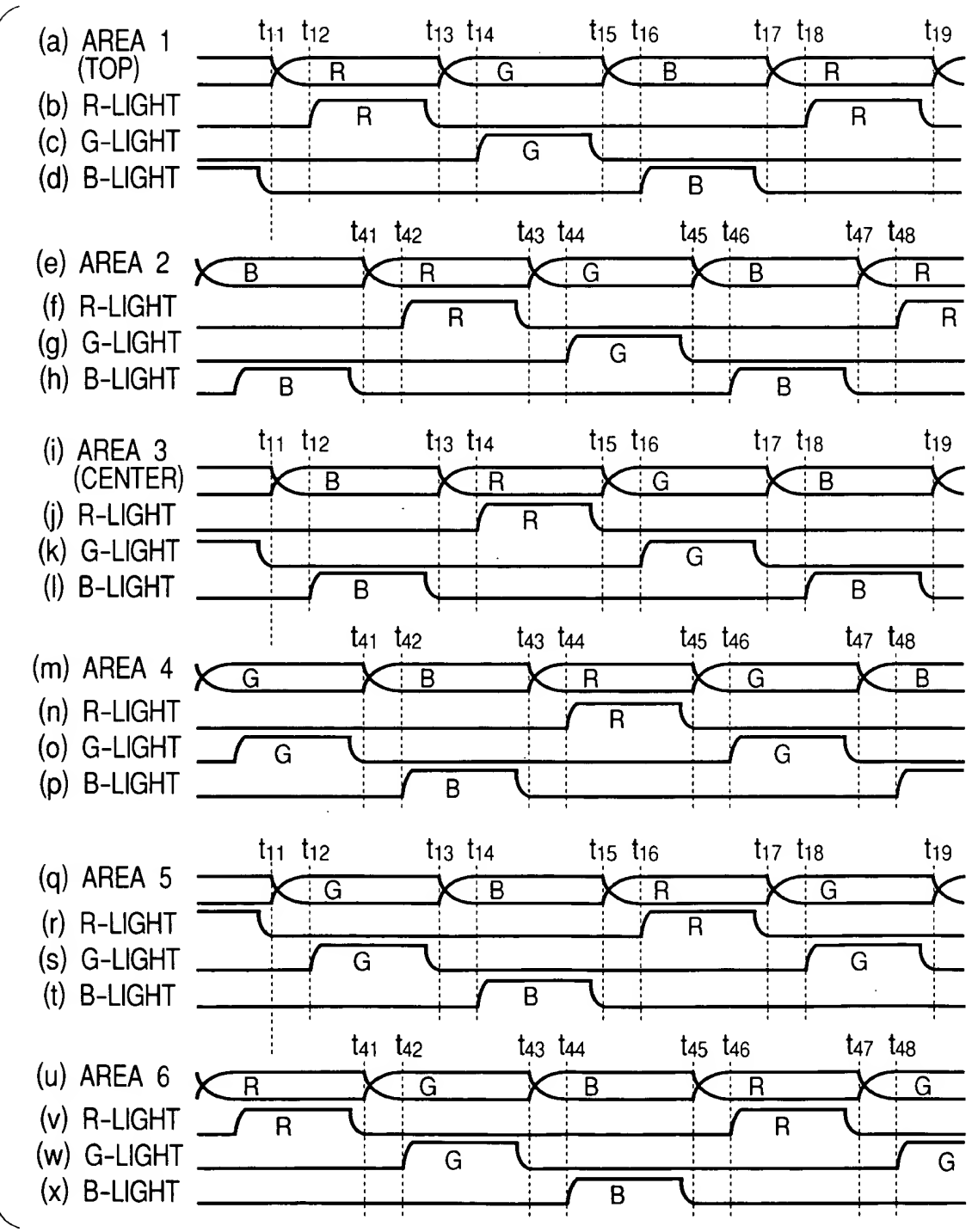
(a) AREA 1 (TOP)
(b) R-LIGHT
(c) G-LIGHT
(d) B-LIGHT
(e) AREA 2
(f) R-LIGHT
(g) G-LIGHT
(h) B-LIGHT
(i) AREA 3 (CENTER)
(j) R-LIGHT
(k) G-LIGHT
(l) B-LIGHT
(m) AREA 4
(n) R-LIGHT
(o) G-LIGHT
(p) B-LIGHT
(q) AREA 5
(r) R-LIGHT
(s) G-LIGHT
(t) B-LIGHT
(u) AREA 6
(v) R-LIGHT
(w) G-LIGHT
(x) B-LIGHT
t11 t12 t13 t14 t15 t16 t17 t18 t19
t41 t42 t43 t44 t45 t46 t47 t48

FIG. 19A

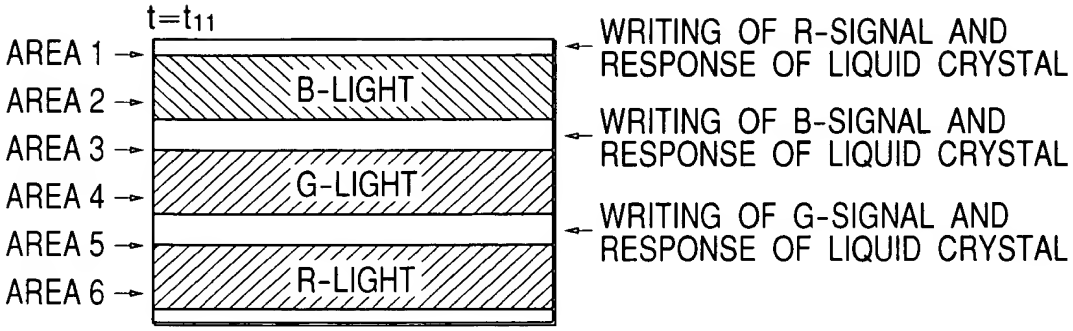

FIG. 19B

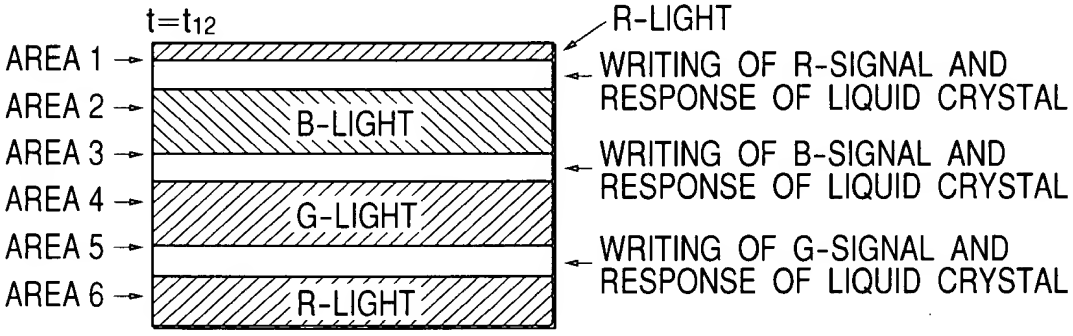

FIG. 19C

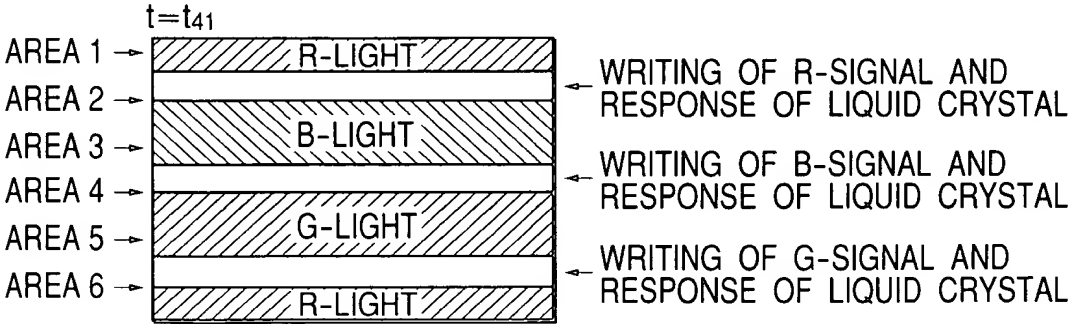

FIG. 19D

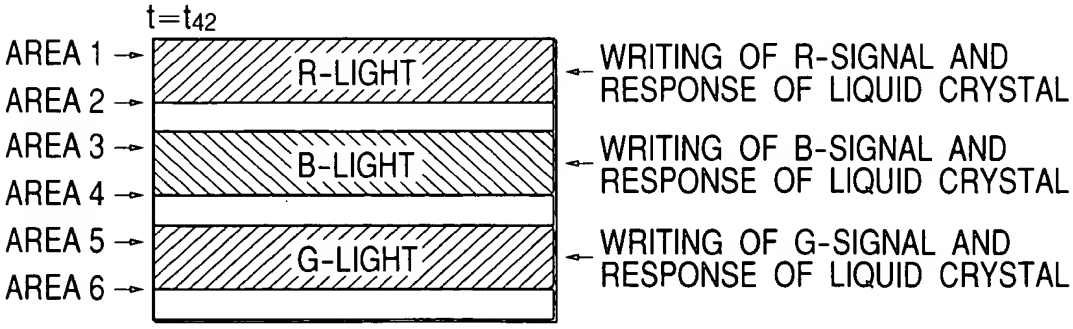

FIG. 20

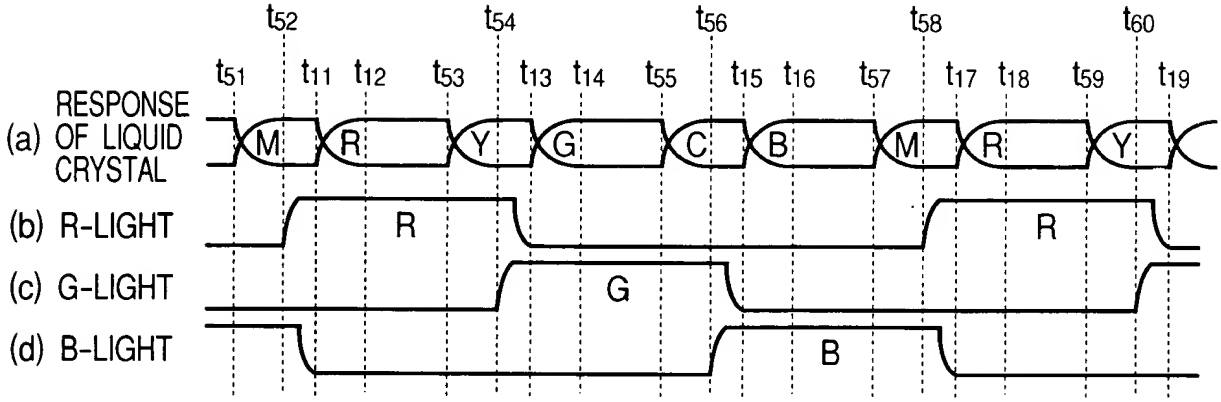

FIG. 21A

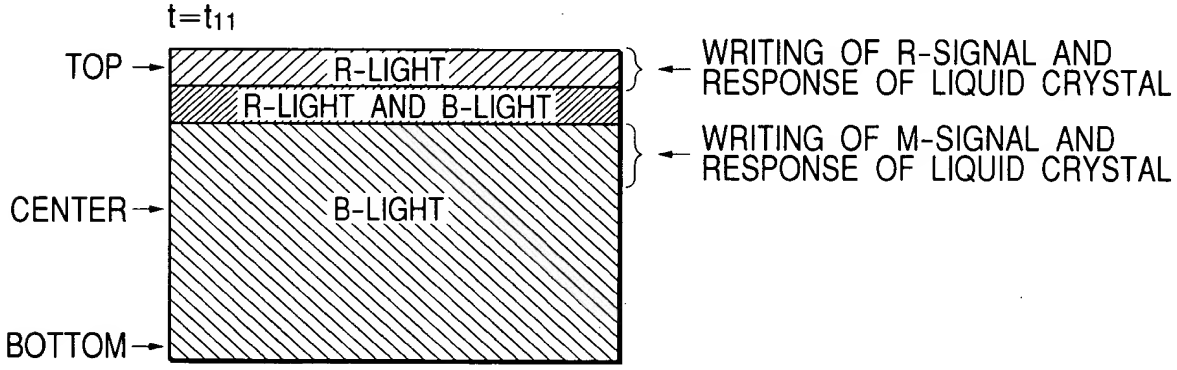

FIG. 21B

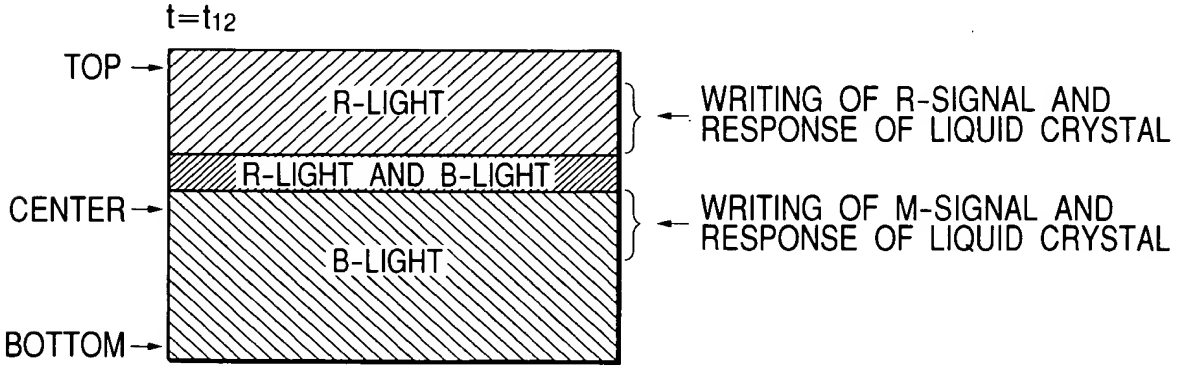

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FIG. 22

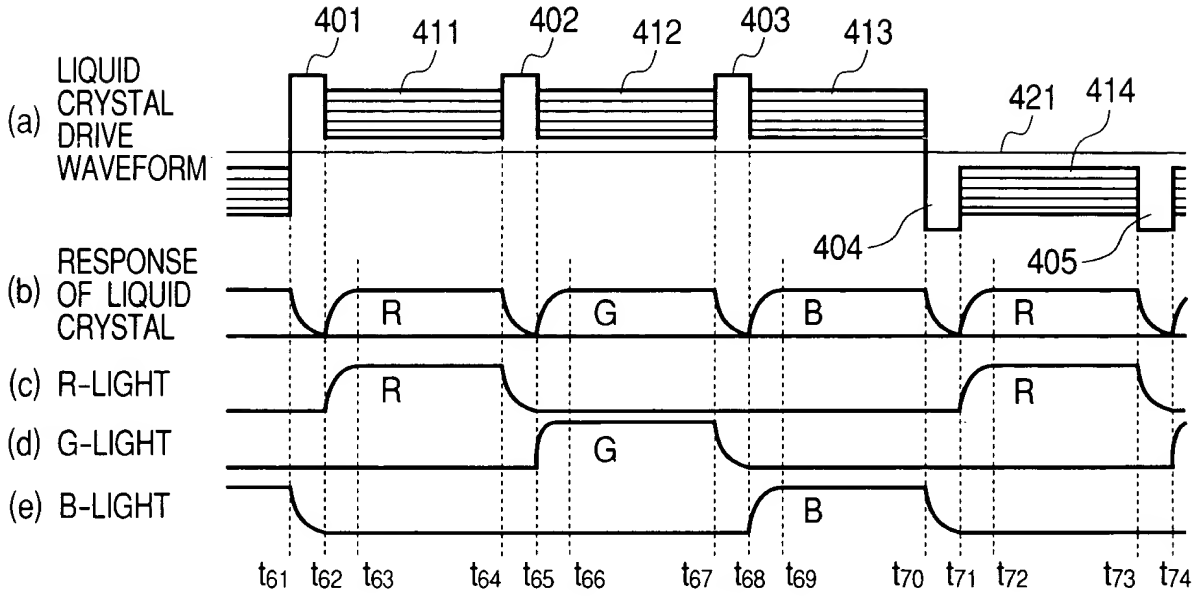

401
411
402
412
403
413
421
414
404
405
(a) LIQUID CRYSTAL DRIVE WAVEFORM
(b) RESPONSE OF LIQUID CRYSTAL
(c) R-LIGHT
(d) G-LIGHT
(e) B-LIGHT
R
G
B
R
R
R
G
B
t61 t62 t63 t64 t65 t66 t67 t68 t69 t70 t71 t72 t73 t74

FIG. 23

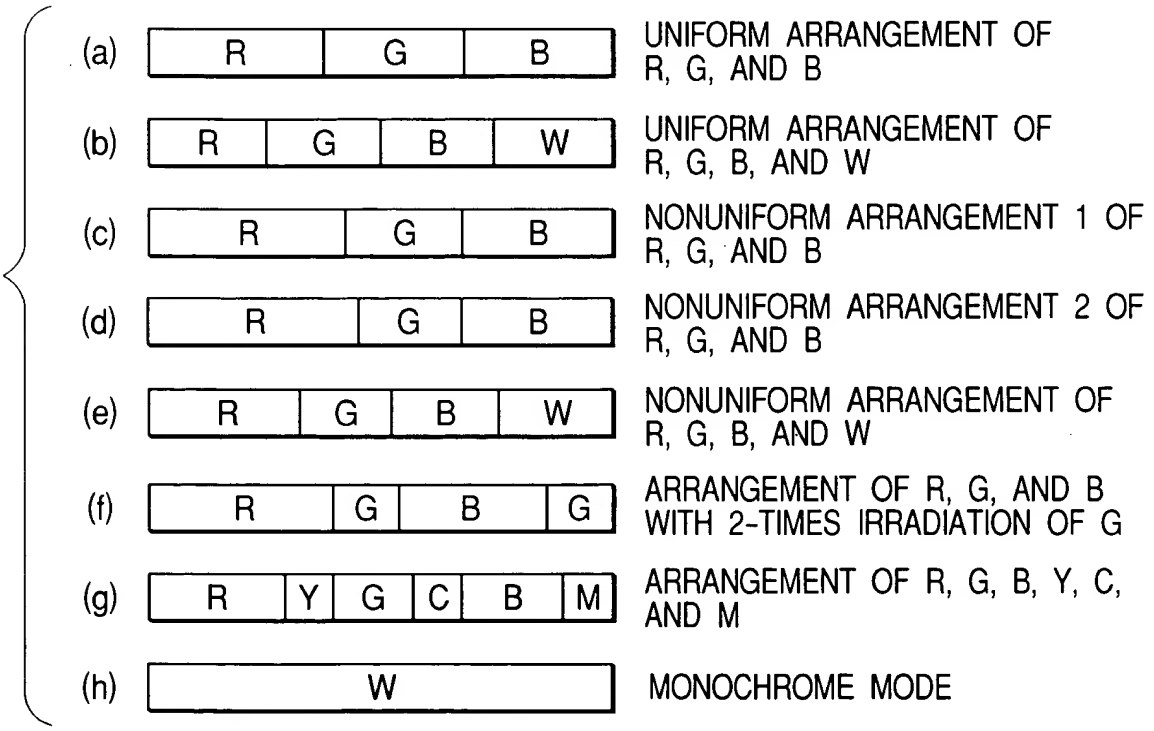

(a) R G B
UNIFORM ARRANGEMENT OF R, G, AND B
(b) R G B W
UNIFORM ARRANGEMENT OF R, G, B, AND W
(c) R G B
NONUNIFORM ARRANGEMENT 1 OF R, G, AND B
(d) R G B
NONUNIFORM ARRANGEMENT 2 OF R, G, AND B
(e) R G B W
NONUNIFORM ARRANGEMENT OF R, G, B, AND W
(f) R G B G
ARRANGEMENT OF R, G, AND B WITH 2-TIMES IRRADIATION OF G
(g) R Y G C B M
ARRANGEMENT OF R, G, B, Y, C, AND M
(h) W
MONOCHROME MODE

FIG. 24

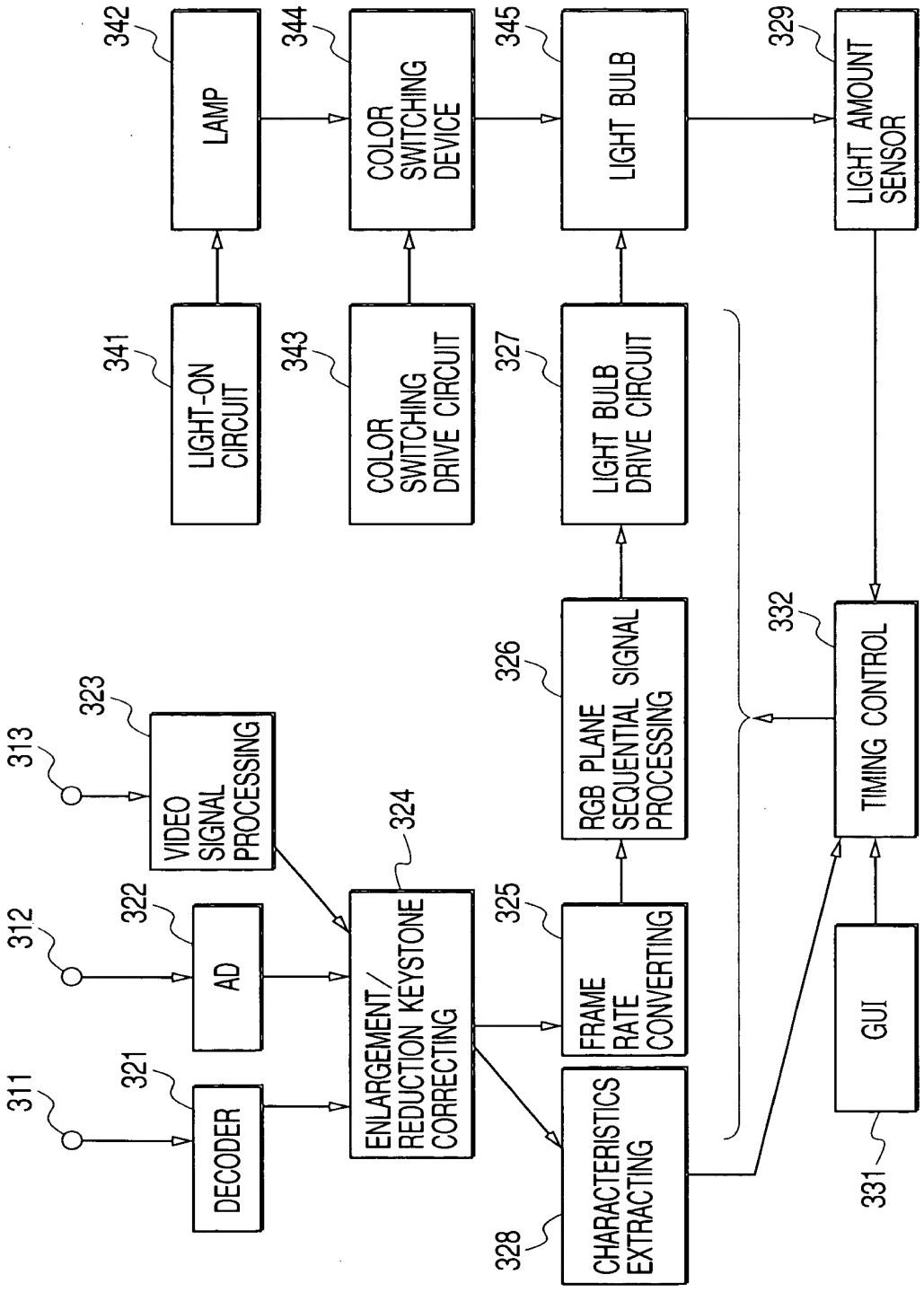

311
312
313
321
322
323
324
325
326
327
328
329
331
332
341
342
343
344
345
DECODER
AD
VIDEO SIGNAL PROCESSING
ENLARGEMENT/ REDUCTION KEYSTONE CORRECTING
FRAME RATE CONVERTING
RGB PLANE SEQUENTIAL SIGNAL PROCESSING
CHARACTERISTICS EXTRACTING
LIGHT-ON CIRCUIT
COLOR SWITCHING DRIVE CIRCUIT
LIGHT BULB DRIVE CIRCUIT
LAMP
COLOR SWITCHING DEVICE
LIGHT BULB
LIGHT AMOUNT SENSOR
GUI
TIMING CONTROL

FIG. 25A

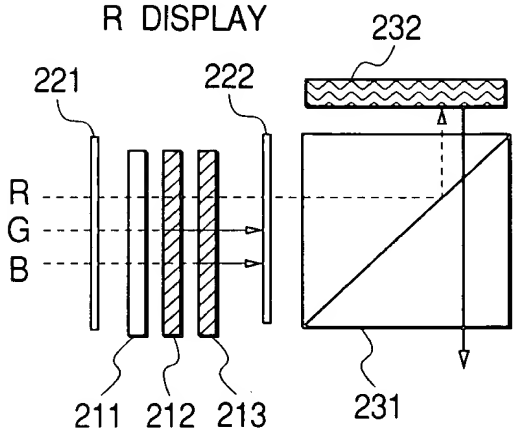


FIG. 25B

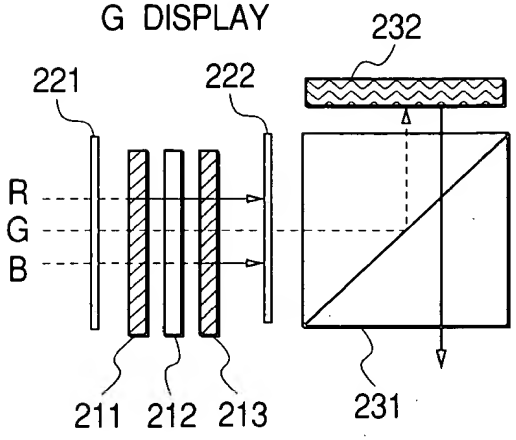


FIG. 25C

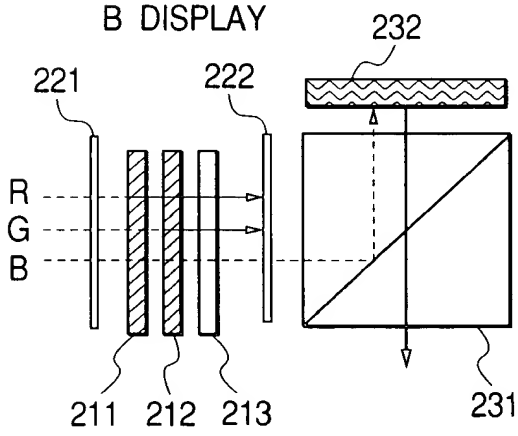


FIG. 25D

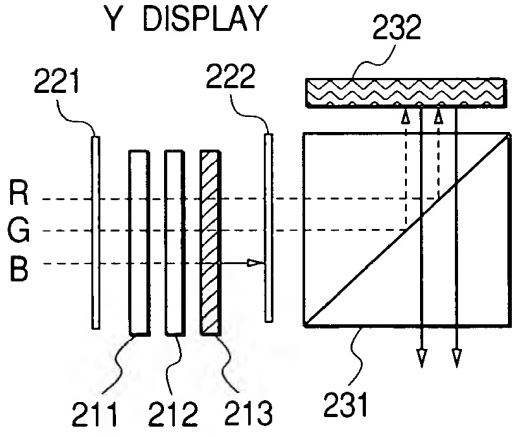


FIG. 25E

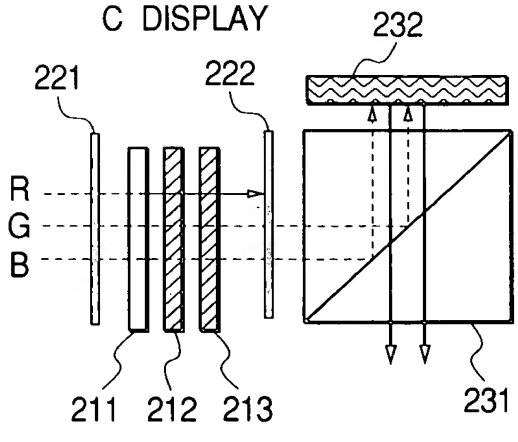
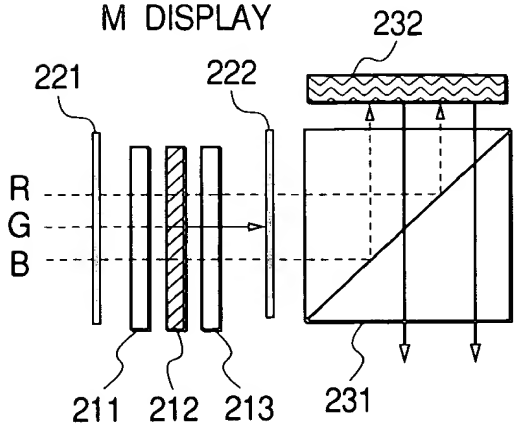


FIG. 25F



T08E80 "4E024b60

FIG. 26

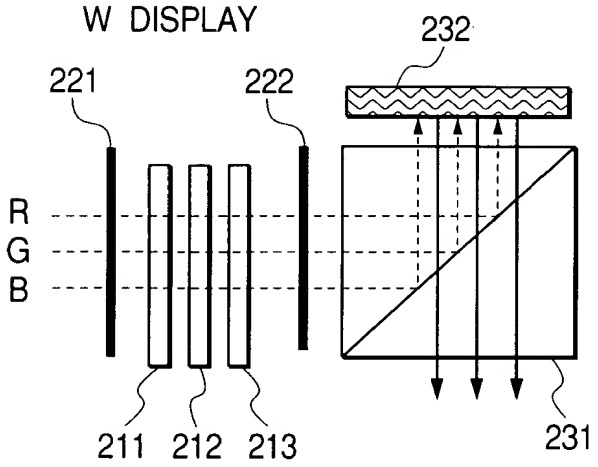
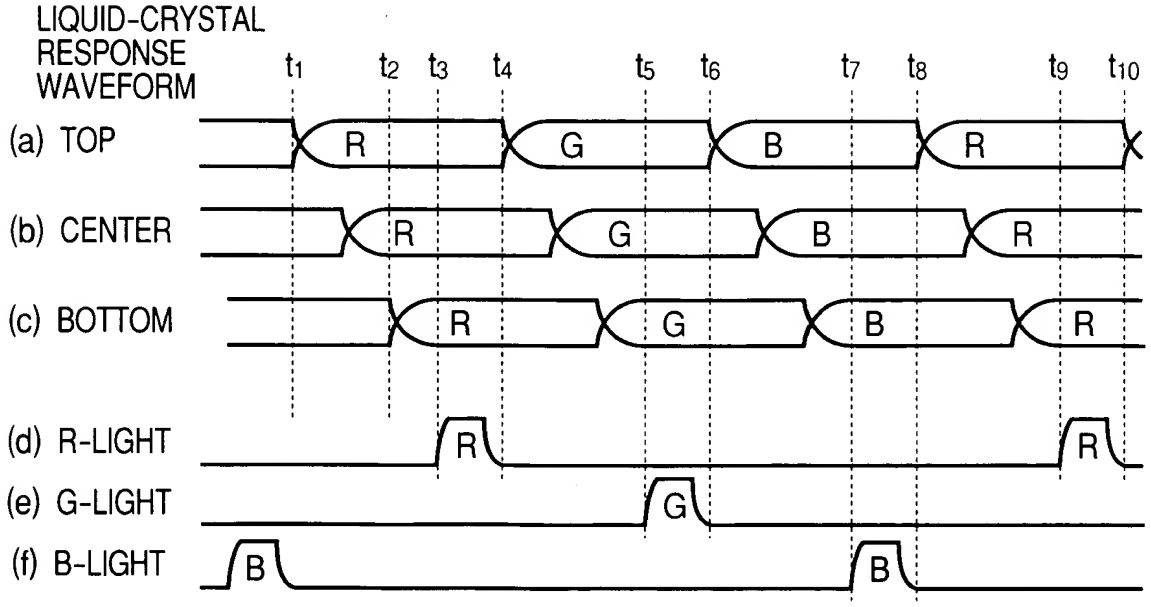

W DISPLAY
232
221
222
R
G
B
211
212
213
231

FIG. 27


LIQUID-CRYSTAL RESPONSE WAVEFORM
t1
t2
t3
t4
t5
t6
t7
t8
t9
t10
(a) TOP
(b) CENTER
(c) BOTTOM
(d) R-LIGHT
(e) G-LIGHT
(f) B-LIGHT
R
G
B